USSR

WC 669.0-154.046.56:536.7

FILIPPOV, S. I., and PADERIN, S. N., Moscow Institute of Steel and Alloys

"Theoretical Foundations of Deep Carbon Oxidation in Metallic Melts"

Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy -- Chernaya Metallurgiya, No 8, Aug 73, pp 15-20

Abstract: The possibilities of refining a melt of complex composition and determining the physical and chemical principles of deep oxidation of impurities in the oxidizing period of melting were investigated. The thermodynamic equations for calculation of the minimum amount of carbon for a maximum amount of oxygen in relation to temperature are given. These equations indicate how to achieve maximum decarburization of heats.

Melting tests were conducted in five-ton are furnaces from which it was possible to quantitatively evaluate the kinetic characteristics and to reveal the optimum conditions of the oxidation period during melting with the purpose of developing new smelting technology, especially for low-carbon alloyed steel in open are furnaces. Three figures, ten bibliographic references.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

UDC 669.183.046.58:669.295

DEDUSHEV, L. A., and FILIPPOV, S. I., Moscow Institute of Steel and Alloys, "Elektrostal" Plant

"The Distribution of Titanium Between Metal and CaO-MgO-TiO2-Al2O3-CaF2 Slag"

Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy, Chernaya Metallurgiya, No 7, 1972, pp 19-23

Abstract: A study was made of the distribution of titanium between a CaO-MgO-TiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub>-CaF<sub>2</sub> slag melt and an Fe-Cr-Ni alloy containing 3.12%Ti. The titanium distribution coefficient between slag and metal is determined by the concentration of Ca, Mg, and Ti oxides in the slag. This makes it possible to consider the investigated slag system as a pseudoternary system in which CaF<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> appear as diluents. From the position of the behavior of the slag system as a pseudo-ternary system, calculation formulas are developed on the basis of experimental data. Results of calculations by the suggested formulas agree with experimental data. Three figures, one table, twelve formulas, thirteen bibliographic references.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

VDC 669.046.5

YAKOVLEV, S. I., FILIPPCV. S. I.

"Temperature and Oxygen Potentials Distribution in an Oxidizing Gas Flow Interacting With Metal Melt"

Moscow, V sb. "Sovremennyye problemy kachestva stali" (MISiS) (Collection of Works. Modern Problems of Steel Quality) (Moscow Institute of Steel and Alloys). Izd-vo "Metallurgiya," No 61, 1970, pp 62-65

Translation of Abstract: Problems of temperature characteristics and compositions of the oxidizing gas flow in oxygen blowing over the surface of ferrocarbon melts are investigated. 3 figures, 2 references.

1/1

USSR

voc 669.180

ARSENT'YEV, P. P., FILIPPOV, S. I.

"Viscosity and Overcooling Phenomenon in Iron Melts"

Moscow, V sb. Sovremennyye problemy kachestva stali" (MISiS) (Collection of Works. Modern Problems of Steel Quality) (Moscow Institute of Steel and Alloys), Izd-vo "Metallurgiya," No 61, 1970, pp 58-62

Translation of Abstract: Problems of viscous properties of liquid pure iron and iron melts with various impurities and also the nature of the overcooling phenomenon of molten iron are considered. Regularities of the effect of separate additions on the viscous properties of iron melts are clarified. An evaluation of their structural characteristics is presented. 2 figures, 22 references.

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Steels

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FILIPPOVING STATES, and RIMKEVICH, V. S.

"Effect of the Components of a Chromium-Nickel Melt on the Kinetics of Complete Decarburization"

Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy, Chernaya Metallurgiya, No 1, 1971, pp 18-22

Abstract: The process of carbon oxidation in the presence of chromium and nickel plays an important part in the technology of melting stainless and heat-resistant steels. This study shows that patterns of critical concentrations determine both the mechanism and kinetics of an alloy melt. The below-critical region of carbon concentrations reveals three stages which can be affected by the alloying element. A change to the film process of indirect carbon oxidation at stages II and III practically eliminates the effect of the different intensities of the parallel oxidation of iron and chromium on the metal's decarburization rate. The inhibiting effect of chromium and the accelerating effect of nickel on the process of decarburization in the C<C<sub>CT</sub> region have been revealed. The kinetic patterns of the interrelation between carbon and chromium oxidation processes have

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USSR

FILIPPOV, S. I., and RIMKEVICH, V. S., Izvestiya Uchebnykh Zavedeniy, Chernaya Metallurgiya, No 1, 1971, pp 18-22

been analyzed. The possibility is shown of accelerating the process of decarburization by feeding the oxidizing agent at lower rates and by involving hydrodynamic factors. Figures in the original article show the dependence of the decarburization rate on carbon content, the dependence of long [C] on time at various feeding rates of the oxidizer, the dependence of  $C_{\rm CT}$  and  $C_{\rm II}$  on both carbon content and oxidizer feeding rates, and kinetic curves of carbon and chromium oxidation versus oxygen consumption (ml/min).

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- 61 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

1/2 015 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--ELECTRICAL CONDUCTIVITY OF IRON AND IRON CARBON MELTS -U-

AUTHOR-(03)-ARSENTYEV; P.P., FILIPPOV; S.I., LISITSKIY, B.S.

COUNTRY OF INFO--USSR

SOURCE--IZV. VYSSH. UCHEB. ZAVED., CHERN. MET. 1970, 13(3), 18-22

DATE PUBLISHED ---- 70

SUBJECT AREAS-MATERIALS

TOPIC TAGS--ELECTRIC CONDUCTIVITY MEASUREMENT, ALLOY MELTING, IRON ALLOY, LIQUID METAL PROPERTY, CARBON, ALLOY COMPOSITION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/0838

STEP NO--UR/0148/70/013/003/0018/0022

CIRC ACCESSION NO--AT0132928

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

AND RESIDENCE AND AND A CONTROL OF THE ARCHITECTURE OF THE ARCHITE

2/2 015 UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--ATO132928 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. AN APP. IS DESCRIBED FOR THE DETN. OF ELEC. COND. OF MELTED FE AND FE ALLOYS. THE ELEC. CONDS. OF FE (C 0.23, SI 0.005, MN TRACES, S 0.012, P 0.005, AND 0.0.015 WT. PERCENT) WERE DONE IN THE RANGE 1400 TO 1600-50DEGREES (SOLID FE). DURING THE MELTING OF FE THERE OCCURRED A SMALL INCREASE OF ELEC. COND.; THE RATIO FO ELEC. RESISTANCE FOR FE SUBLIQ. TO THAT OF FE SUBSOLID EQUALS 1.060. THIS INDICATES THAT THE ELECTRON STRUCTURE IN MOLTEN FE IS ABOUT THE SAME AS IN SOLID FE. THE SP. RESISTANCE OF MOLTEN FE AT THE M.P. WAS THE TEMP. DEPENDENCE WAS DESCRIBED BY AN EQUATION. 135.1 MICRODHM-CM. FOR THE SOLID FE A SIMILAR EQUATION WAS DEVELOPED. THE ELEC. RESISTANCE OF FE-C ALLOY WAS DETD. IT IS ASSUMED THAT FEOC ALLOYS CONSIST IN 2 DIFFERENT STATES. THE FAIRLY HIGH INCREASE OF ELEC. RESISTANCE WITHIN THE RANGE 0.2-0.4PERCENT INDICATES THAT C IS PRESENT AT A CATION, WHILE GREATER THAN 0.4PERCENT C THE FE-C SOLID SOLN. EXISTS WITH A DIFFERENT STRUCTURE OF SHORT ORDER, SIMILAR TO GAMMA SOLN. MOSK. INST. STALI SPLAVOV, MOSCOW, USSR.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

1/2 018 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--PRECRYSTALLIZATION ANOMALIES OF THE SPEED OF SOUND IN MELTS OF
METALS AND INTERMETALLIC A PRIMEIL B PRIMEV TYPE COMPOUNDS -UAUTHOR-(02)-YATSYK, S.I., FILIPPOV, S.I.

COUNTRY OF INFO--USSR

SOURCE-IZV. VYSSH. UCHEB. ZAVED., CHERN. MET. 1970, 13(1), 121-3

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--METAL RECRYSTALLIZATION, INTERMETALLIC COMPOUND, ACOUSTIC PROPERTY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/1010

STEP NO--UR/0149/70/013/001/0121/0123

CIRC ACCESSION NO--ATO102944

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

2/2 018 UNCLASSIFIED PROCESSING DATE--L8SEP70

CIRC ACCESSION NU--ATO102944 ABSTRACT. THE PRECRYSTN. PHENOMENA WHICH ABSTRACT/EXTRACT--(U) GP-0-ANTICIPATE THE APPEARANCE OF THE SOLID PHASE WERE STUDIED BY DETD. THE PROPAGATION RATE FOR LONGITUDINAL ACCOUSTICAL VIBRATIONS IN METALS (ZN, CO) AND SEMIMETALS (SB) AND INTERMETALLIC COMPOSE OF THE A PRIMETI B PRIMEY TYPE (ZN SUB3 SB SUB2, CDSB) BY USING THE METHOD DESCRIBED EARLIER (Y., 1968). FOR THE METALS, THEREIS A LINEAR DECREASE IN THE RATE WITH INCREASING TEMP. WHICH IS ATTRIBUTED TO AN INCREASE IN THE AV. INTERAT. DISTANCES AND THE DESTRUCTION OF LOCAL STRUCTURE. IN SB THE RATE INCREASES WITH TEMP. REACHING A MAX. AT 830DEGREES AND THEN DECREASES ALMOST LINEARLY. THIS IS EXPLAINED BY THE PRESENCE OF 2 STRUCTURES IN THE MELT: A REGION OF SPHERICAL DENSE PACKING OF THE SB PRIMES POSITIVE IONS AND A REGION OF LAMINAR PACKING. THE INCREASE IN THE RATE WITH TEMP. IS ATTRIBUTED TO THE PARTIAL DESTRUCTION OF THE COVALENT, NONMETALLIC STRUCTURE, THE MAX. CORRESPONDING TO THE COMPLETE DESTRUCTION AND THE FORMATION OF SYM. PACKING OF THE IONS. FOR THE COMPOS. THERE IS A CHARACTERISTIC, EXPONENTIAL INCREASE IN THE RATE OVER A LARGE TEMP. RANGE ABOVE THE M.P. THE CHANGE IN THE ACOUSTICAL PROPERTIES IS CALCO. ON THE BASIS OF THE STRUCTURE OF THE ELECTRON ENERGY ZONES IN THE MELT.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

1/2 016 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--INTERACTION OF LIQUID OXIDE PHASES WITH A CARBON MELT -U-

AUTHOR-(03)-MAZHENOV, M.A., RYZHONIKOV, D.I., FILIPPOV, S.I.

COUNTRY OF INFO--USSR

SOURCE-- IZV. VYSSH. UCHEB. ZAVED., CHERN. MET. 1970, 13(1) 13-17

DATE PUBLISHED ---- 70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--MOLTEN METAL, IRON OXIDE, CARBON, SLAG

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/0949

STEP NO--UR/0148/70/013/001/0013/0017

CIRC ACCESSION NO--ATOIO5818

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USSR

UDC 628.165.04:628.31

TKACH, V. I., FILIPPOV, S. N., and SOROKIN, V. S.

"Distillation Desalination Units for Purification of Sewage From Some Industries"

Moscow, Vodosnabzheniye i Sanitarnaya Tekhnika, No 7, 1973, pp 17-21

Abstract: The problems involved in purification of sewage with high salt content are discussed including the aspects of their dumping into the general water works, recycling, etc. Purification units have been designed based on evaporation of sewage. Technical diagrams for the apparatus used in thermal purification are reported. None of them are in use as yet. Some are being built at present time, some are still on the drawing boards.

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UDC 542.48

KOLOTYGIN, Yu. A., D'YAKOV, A. A., FILIPPOV, S. N., and POLYAK, T. I., Sverdlovsk

"Acid Treatment of Distilled Sea Water"

Moscow, Vodosnabzheniye i Sanitarnaya Tekhnika, No 10, 1972, pp 5-6

Abstract: Experimental results are reported on the study of thermal decomposition of bicarbonates in partially acidified Caspian Sea water. It was shown that the decomposition of bicarbonates can be almost completely prevented by acidifying the water to pH 5-6. On this basis a method was developed for evaporation of sea water following a partial acidification of the starting material.

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UDC 533.95.538.4

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SAMARSKIY, A. A., Corresponding Hember of the Academy of Sciences USSR, KURDYUNOV, S. SP., KULIKOV, YU. N., LESKOV, L. V., POPOV, YU. P., SAVICHEV, V., and FILIPPOV, S. S., Institute of Applied Mathematics, Academy of Sciences USSR, Moscow

"Magnetohydrodynamic Model of Unsteady Plasma Acceleration"

Moscow, Doklady Akademii Nauk SSSR, Vol 206, No 2, 1972, pp 307-310

Abstract: During an experimental study of pulsed plasma accelerators, some physical phenomena were discovered which cannot be explained within the framework of existing simplified models: viz., the existence of a laminated structure for the ejected plasma formation, motion counter to the accelerating ampere force, the presence of high-multiplicity ions in the plasma, heating up of the plasma to high temperatures in narrow sections, etc. Therefore, the authors undertook to calculate the dynamics of plasma formations in pulsed accelerators, with allowance for the spatial distribution of the physical characteristics of the plasma, radiation, and nonlinear effects in the plasma. As a result of computer-aided calculations density, velocity, temperature,

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SAMARSKIY, A. A., et al., Doklady Akademii Nauk SSSR, Vol 206, No 2, 1972, pp 307-310

current, and the magnetic field along the direction of notion were determined. It is shown that there are nonlinear mechanisms leading to the appearance of heated current layers (T-layers) in the nedium, separated by intervals of relatively cold gas. The T-layers evolve and generate shock waves which propagate on both sides, and this leads in turn to the production of new T-layers, the formation of plasma clusters and their interaction, the return motion of the substance, and the appearance of closed current loops in the plasma. A study is made of the energy balance in the accelerator and the time redistribution of individual forms of energy.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

UDC 533.91538.561

YEROFEYEV, V. S., SANOCHKIN, YU. V., and FILIPPOV, S. S.

"Electrical Layer Near the Anode in a Discharge With Transverse Magnetic Field"

Minsk, Kolebaniya i Volny v Plazme. (Oscillations and Waves in a Plasma), "Nauka i Tekhnika," 1971, pp 49-52

Abstract: The authors examine the problem of the distribution of potential and concentration of charged and neutral particles in the electric field near the anode forming in a discharge with a strong transverse magnetic field. They investigate the case of an independent discharge by allowing for the intake and burn-up of the neutral gas. The question concerning the probability of ionization of the neutral atoms in the layer is discussed, and solutions are also found for other charge conditions. The authors use equations to prove their solution and illustrate their findings graphically on two figures. Figure 1 shows the potential distribution and F Figrue 2 shows the characteristics of the neutral atoms. The article contains 2 illustrations and 5 bibliographic entries.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR UDC: 531, 1

KLIMOV, D.M., ROGACHEVA, L.N. and FILIPPOV, V.A., Moscow

"Resonant Regimes of Gimbal - Mounted Gyroscope"

Moscow, Izvestiya Akademii Nauk SSSR, Mekhanika Tverdogo Tela, No 4, Jul/Aug 72, pp 3-14

Abstract: The motion of a balanced gyroscope, gimbal mounted on a fixed base, is analyzed. The equations of motion are set up. The solutions are obtained for the case of no excitation and for the case of a small cyclic moment acting on the inner ring. It is shown that with no excitation the inner ring may oscillate or rotate depending on the initial conditions. The amplitudes of oscillation and the speed of rotation as a function of exciting frequency are given. The stability of resonant regimes, including the case of zero friction of the gimbals, is investigated. Graphs of resonant frequency for several values of friction coefficient are presented.

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#### Kellability Theory

USSR

UDC 621.396.69.019.3

ABRAMOV, V. A., PRUDNIKOV, I. V., FILIPPOV, V. A.

"Predicting the Reliability of Electronic Equipment"

Sb. nauch. tr. po probl. mikroelektron. Mosk. in-t elektron. tekhn. (Collected Scientific Works on Problems of Microelectronics. Moseow Institute of Electronic Technology), 1970, vyp. 5, pp 165-173 (from RZh-Radiotekhnika, No 7, Jul 71, Abstract No 7V329)

Translation: The paper deals with the prediction of reliability of quartz resonators with regard to gradual and sudden failures. Sudden failures are distributed according to Poisson law, gradual failures are studied by statistical methods. As a result of the study, a model is developed which enables determination of the reliability of elements whose output characteristics are approximated by a linear law. Resume.

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USSR

KLIMOV, D. M., FILIPPOV, V. A. Moscow

"On Resonance in a Strongly Nonlinear Gyroscopic System"

Moscow, Mekhanika Tverdogo Tela, No 6, Nov/Dec 1970, pp 42-54

Abstract: Forced resonance oscillations are considered for a gyroscope in a Cardan suspension, where the amplitudes of the oscillations are assumed to be finite, thus resulting in appreciable nonlinearity of the system. An approximate formula is derived for the mean angular velocity of the gyroscope about the external axis in the case of small equilibrium amplitudes. The result is analogous to that found in a previous work for the case of undamped nutation, which coincides with formulas derived by Magnus, Plymale and Goodstein.

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UDC: 621.374(088.8)

FILIPPOV, V. A., KRYUCHKOV, V. V.

"A Device for Synchronizing Pulses"

USSR Author's Certificate No 263670, filed 9 Sep 68, published 8 Jun 70 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1A303 P)

Translation: This Author's Certificate introduces a pulse synchronizer which contains switches, delay lines and a flip-flop. As a distinguishing feature of the patent, the possibility of two pulses appearing at the output of the device in the case of time coincidence of the synchronized and cadence pulses is eliminated by connecting the output of the first switch to one of the inputs of the second switch through two series-connected delay lines whose common point is connected to the reset terminal of the flip-flop whose output is connected to the other input of the second switch. E. L.

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CONTROL OF THE PROPERTY OF THE

1/2 017 UNCLASSIFIED
TITLE—MOTION OF A CORRECTABLE GYROSCOPE -U-

PROCESSING DATE-300CT70

AUTHOR-FILIPPOV, V.A.

COUNTRY OF INFO-USSR

SOURCE-AKADEMIIA NAUK SSSR, IZVESTIIA, MEKHANIKA TVERDOGO TELA, MAR. APR.

DATE PUBLISHED -----70

SUBJECT AREAS --- NAVIGATION

TOPIC TAGS-GYROSCOPE MOTION, GYROSCOPE MOTION EQUATION, MOTION STABILITY

CCNTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—2000/0270

STEP NO--UR/0484/70/000/000/0033/0038

CIRC ACCESSION NO--APO124031

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

UNCLASSIFIED

PROCESSING DATE—300CT70

CIRC ACCESSIGN NO—APO124031

ABSTRACT/EXTRACT—(U) GP-0— ABSTRACT. CONSIDERATION OF THE STABILITY OF MOTIGN AND OF THE SMALL VIBRATION FREQUENCY OF A CORRECTABLE GYROSCOPE WHEN THE CORRECTION MOMENT FORMS AN ARBITRARY ANGLE WITH THE MISMATCH PLANE. THE CASE OF SYMMETRICAL AND ASYMMETRICAL GYROSCOPES ARE ANALYZED AND COMPARED. IN PARTICULAR, IN THE CASE OF AN ASYMMETRICAL GYROSCOPE THE EXISTENCE OF FOUR SMALL VIBRATION FREQUENCIES IS SHOWN OF WHICH THREE ARE OF THE ORDER OF THE PROPER ROTATION FREQUENCY.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

VDC: 621.318.1

FILIPPOV, V. D.

"Some Peculiarities in the Manufacture of Multiapertured Ferrite Plates"

Elektron. tekhnika. Nauch-tekhn. sb. Mikroelektronika (Electronic Technology. Scientific and Technical Collection. Microelectronics), 1970, vyp. 5(26), pp 49-50 (from RZh-Radiotekhnika, No 5, May 71, Abstract No 5V404)

<u>Translation</u>: The author outlines the results of mathematical-statistical research on the production and use of multiapertured ferrite plates. Laws of distribution are given for the basic parameters of the coercive force  $H_{\rm c}$  and residual magnetic induction  $B_{\rm r}$ . Recommendations are given on cutting down rejects and technological losses. Resumé.

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USSR UDC: 669.296.5:620.193/.196

FILIPPOV, V. F., KASHCHUK, V. A.

"Influence of the Addition of Transition Metals on the Corrosion Resistance of Zirconium"

Sb. Nauch. Tr. Tomsk. Inzh.-Stroit. In-t [Collected Scientific Works of Tomsk Institute of Construction Engineering], 1973, No 21, pp 68-71 (Translated from Referativnyy Zhurnal Metallurgiya, No 8, 1973, Abstract No \$1729, by L. Petrova).

Translation: The corrosion properties of Zr were studied with the addition of Ti, V, Cr, Mn, Fe, Co, Ni, W, Re, Y, Nb, Mo, Ru, Rh, Pd, Ta, Os, Ir (from 0.05 to 1.6%) in a 50% solution of HNO<sub>2</sub> at 35° 48 g on the basis of weight loss. The greatest increase in the resistance of Zr to corrosion resulted from the addition of Fe, Co, Ni, Ru, Rh, Pd, Os, Ir. The addition of Y, V, Nb and Ta increased the corrosion resistance of Zr less, while Ti, Cr, Mn, Mo, W and Re increase it still less. The corrosion resistance of Zr is discussed on the basis of the electron structure of the metal. I table, 4 biblio. refs.

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UNCLASSIFIED PROCESSING DATE--20NGV70
TIT: E--CHANGE IN THE SPECIFAL COEFFICIENTS OF RADIATION ATTENUATION BY
HAZE IN THE SPECIFAL REGION 0.59-13 MICRONS -UAUTHOR-(02)-FILIPPOV, V.I., MIRUMYANTS, S.D.

CCUNTRY OF INFG--USSR

SCURCE-MOSCOW, IZVESTIYA AKADEMII NAUK SSSR, FIZIKA ATMOSFERY I OKEANA, VOL VI, N. 6, 1970, PP 641-643. DATE PUBLISHED----70

SUBJECT AREAS -- ATMOSPHERIC SCIENCES

TUPIC TAGS-AITENUATION, AEROSOL, ATMUSPHERE, TURBIDITY, IR RADIATION

CENTROL MARKING-NO RESTRICTIONS

PROXY REEL/FRAME--3006/1945

STEP NO--UR/0362770/006/006/0641/0643

CIRC ACCESSION NO--APCIB-470

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

PROCESSING DATE--20NOV70 UNCLASSIFIED 2/3 039 CIRC ACCESSION NO--APOL35470 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE USE OF AN ELECTRONIC COMPUTER AFFORDS EXTENSIVE POSSIBILITIES FOR DIRECT COMPUTATION OF THE SPECTRAL COEFFICIENTS OF AEROSOL ATTENUATION AUPHA (LAMBDA) ON THE BASIS OF THE EXPRESSIONS OF THE NIL THEORY OR CORRESPONDING APPROXIMATE FORMULAS UNDER THE CONDITION OF STIPULATION OF THE MICROPHYSICAL PROPERTIES OF PARTICLES RESPONSIBLE FOR ATMOSPHERIC TURBIDITY. LACK OF RELIABLE DATA ON THE SPECTRUM OF DISTRIBUTION OF AEROSOL PARTICLES BY SIZE IS RELATED TO DIFFICULTIES IN MEASURING THE PARAMETERS OF THE AEROSOL MEASURING 0.07-0.6 MICRON AND NEVERTHELESS PLAYING AN IMPORTANT RULE IN FORMING THE TYPE OF SPECTRAL CEPENDENCE ALPHA (LAMBOA). ACCORDINGLY, IT IS NECESSARY TO OBTAIN DATA UN THE AEROSOL BY NUMEROUS MEASUREMENTS OF THE OPTICAL PROPERTIES OF ATMOSPHERIC HAZES. CONLY SUCH MEASUREMENTS. INVOLVING REGISTRY OF FORMATION AND VARIABILITY OF AEROSOL STATES WITH CHARGES IN THE SURROUNDING METEOROLOGICAL CONDITIONS LANGIVE FUNDAMENTAL TINFORMATION ON THE PHYSICAL LAWS DETERMINING THE FORMATION OF OPTICAL MEATHER. THIS IS A CONTINUATION OF A PRELIMINARY REPORT BY THE AUTHORS WHICH WAS PUBLISHED UNLY IN ABSTRACT FORM. THE EXAMPLES CONSIDERED IN THIS PAPER CORRELATE WITH THE RESULTS OF CAPLIER INVESTIGATIONS INDICATING A DEFINITE ROLE OF THE CONDENSATION PROCESS IN THE FORMATION OF ACROSULES (TUATIONS .: THE EXAMPLES SHOW THAT ACROSULS TIBSERVED UNDER NATURAL CUNDITIONS CAN DIFFER SUBSTANTIALLY IN THEIR PARTICLE SIZE SPECTRUM, WHICH IS DEPENDENT UN THE CHANGE IL METECROLOGICAL CONDITIONS AND AS A RESULT, ON THE SEASON OF THE YEAR. IT IS ESSENTIAL TO TAKE INTO ACCOUNT THE LIFETIME OF THE HAZE.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

GIRC ACCESSION NO-APOI35470

ABSTRACT/EXTRACT-DUNING KELATIVELY BRIEF SUMMER HAZES THE PARTICLE
DISTRIBUTION IS SHARPLY LIMITED UPWARD. DURING OTHER SEASUNS, WHEN
THERE IS AN INCREASE IN THE DURATION AND RECURRENCE OF STATES
CHARACTERIZED BY A REPURDLUSICAL RANGE OF VISIBILITY LESS THAN 20 KM,
THE LARGE PARTICLE FRACTION PLAYS AN IMPORTANT RULE IN THE ATTENUATION
OF INFRARCD RADIATION.

UNCLASSIFIED

**US**SR

UDC: 621.791.753.5.037-52:62-413:669.715

KORNEYEV, A. D., Candidate of Technical Sciences, ZUSIN, V. YA., Engineer, FILIPPOV, V. K., Engineer, BAGRYANSKAYA, S. K., Engineer, and MOLCHANOV, A. F., Engineer, Zhdanov Metallurgical Institute

"Automatic Hidden Arc Welding of Thick-Walled Aluminum"

Moscow, Svarochnoye Proizvodstvo, No 6, Jun 73, pp 48-49

Abstract: Aluminum 40mm thick was welded with a hidden are (under ceramic flux) using the VIM-1601 rectifier as the power source. Two parallel connected VKSM-1000 rectifiers were used for metal thicker than 40mm. The butt joint welding of plates made from A5 aluminum was conducted with two electrode wires, perpendicular to the weld seam axis. A plate made from low-carbon steel with a milled groove was used in forming the reverse side of the seam. Specimens 40, 50, and 62mm thick, consisting of two plates, were welded in testing the one side, single pass method. Analyses of the macro- and microstructure of the seam metal show high density and the absence of pores and slag inclusions both in seam cross section and in places where the plates join the seam. The results show that single pass, one sided welding of sheets up to 70mm is possible without preheating and edge shaping.

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USSR

UDC: 532.526

LAVROV, Yu. V., FILIPPOV, V. M.

"Experimental Investigation of the Transition From a Laminar to a Turbulent Boundary Layer on the Walls of the Working Section of a Wind Tunnel"

Uch. zap. Tsentr. aerogidrodinam. in-ta (Scientific Notes of Central Aerohydrodynamics Institute), 1972, 3, No 2, pp 60-68 (from RZh-Mekhanika, No 9, Abstract No 98861)

Translation: Experimental studies are done on the transition from a laminar to a turbulent boundary layer on the side walls of the working section of a low-turbulence wind tunnel. Relations are found for the main statistical characteristics of the transition region (intermittence coefficient and intermittence number) as functions of the oncoming flow velocity and the coordinate of the given cross section, which are described by a normal law of distribution of random quantities. The studies are done with the aid of inductive pressure pickups, which almost completely eliminated the distrubing influence of the measuring instrumentation on the flow. Bibliography of 9 titles. Resumé.

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UDC 629.78.018.1

LAVROV, YU. V. and FILIPPOV, V. M.

"Experimental Investigation of Laminar-to-Turbulent Boundary Layer Transition on the Walls of Wind Tunnel"

Uch. Zap. Tsentr. Aerogidrodinam. In-ta (Scientific Writings of the Central Aerohydrodynamics Institute), Vol 3, No 2, 1972, pp 60-68 (from Referativnyy Zhurnal--Raketostroyeniye, No 8, 1972, Abstract No 8.41.97)

Abstract: Experimental studies of the transition from a laminar-to-turbulent boundary layer on the side walls of the working part of a low turbulence wind tunnel have been conducted. Relationships of the basic statistical characteristics in the transition region (coefficient and number of intermittence) to the velocity of inflow and coordinates of the investigated cross section were obtained which are described by the normal law of random value distribution. The investigations were carried out with the aid of inductive sensors of pressure that to almost fully remove the disturbing effect of the measuring equipment on the flow. Author's view, 6 figures, 9 bibliographical references.

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UDC: 533.6.08

# FILIPPOV, V. M.

"A Hot-Wire Anemometer Attachment for Measuring Transverse Pulsations of Velocity"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 8, Mar 72, Author's Certificate No 330389, Division G, filed 29 Dec 69, published 24 Feb 72, p 138

Translation: This Author's Certificate introduces a hot-wire anemometer attachment for measuring transverse pulsations of velocity. The device contains electrically conductive supports to which the sensing element is fastened. As a distinguishing feature of the patent, the sensitivity of the attachment is increased and measurement accuracy is improved by making the sensing element in the form of a banded filament shaped into a rhombus whose sides form the arms of a Wheatstone bridge. The plane of the rhombus is located with the longer diagonal in the direction of flow and forming an angle of 5-10° with it. The shorter diagonal is normal to the flow. The first downstream support and the two side supports are at an angle of 10-20° to the plane of the rhombus.

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FILIPPOV, V. M., and STRUMINSKIY, V. V.

"Experimental Investigation of the Appearance and Development of Turbulence in Pipes"

V sb. Turbulentn. techeniya (Turbulent Flows -- Collection of Works), Moscow, "Nauka," 1970, pp 240-246 (from RZh-Mekhanika, No 1, Jan 71, Abstract No 1B678 by authors)

Translation: It is shown that in laminar-turbulent transition there first appear therein clearly pronounced sinusoidal oscillations, the development of which subsequently leads to the formation of individual turbulent centers. The dependence of intermittance coefficient and number on Reynolds number is described comparatively well by an integral function and density function of normal error distribution law respectively. Investigations were conducted by the scattered-light method using a special hydraulic device of the closed type with a square- and round-section working part.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

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UDC 621.396.677(02)

ARDAB'YEVSKIY, A. I., VOLKOV, O. A., VOSKRESENSKIY, D. I., GOSTYUKHIN, V. L., GRANOVSKAYA, R. A., GRINEVA, K. I., KRITSYN, V. A., MYAKISHEV, B. YA., FILIPPOV, V. S., CHEBYSHEV, V. V.

"Microwave Antennas and Devices. Calculation and Design of Antenna Arrays and their Radiating Elements. Textbook for Students at the Radiotechnical Specialized Institions of Higher Learning"

Antenny i ustroystva SVCh. Raschet i proyektirovaniye antennykh reshetok i ikh izluchayushchikh elementov. Uchebn. posobiye dlya stud. radiotekhn. spets. vyzov (cf. English above), Moscow, Soviet Radio, 1972, 320 pp, ill., 75 k. (from RZh-Radiotekhnika, No 6, Jun 72, Abstract No 5B32K)

Translation: Methods of calculating the basic parameters of antenna arrays with electric rocking of the radiation pattern and frequency and commutation methods of controlling the radiation pattern are discussed. A study is made of the structure of the optimal arrays with Dolf-Chebyshev distribution, the design of irised-wave guide and horn arrays and also methods of calculating the array elements: dielectric, rod, spiral, horn and director antennas.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

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UDC: 621.396.677

GRINEV, A. Yu., FILIPPOV, V. S.

Investigation of the Characteristics of Convex Monopulse Antennas"

Tr. Mosk. aviats. in-ta (Works of the Moscow Aviation Institute), 1970, vyp. 203, pp 4-22 (from RZh-Radiotekhnika, No 2, Feb 70, Abstract No 2224)

Translation: Problems of optimum excitation of convex monopulse antennas are considered in the optical physics approximation. An investigation is made of the possibility of approximating the radiation pattern of a convex antenna by using the radiation pattern of a cophased flat aperture; the approximation error is determined. Expressions are derived for the slope of the difference radiation pattern in the direction of the antenna bearing, and for the optimum amplitude-phase distribution of magnetic currents on an ideally conducting spherical antenna surface. Two illustrations, bibliography of seven titles. N. S.

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UDC 535.13

FEDOROV, F. I., and FILIPPOV, V. V.

"Trajectories and Energy Flow Lines of Non-Uniform Electromagnetic Waves in an Isotropic Absorbing Medium"

Leningrad, Optika i Spektroskopiya, Vol 35, No 1, Jul 73, pp 135 - 141

Abstract: Expressions are found for the trajectory and flow lines of the energy of a non-uniform electromagnetic wave of arbitrary polarization in an isotropic absorbing medium. As in the case of a transparent medium, the instantaneous velocity of energy transportation in the direction of phase movement is not equal to the phase velocity but can be either greater or less. The energy movement occurs along one of two possible types of trajectories. Circularly polarized waves are an exception; their phase and energy movements are synchronized and linear. In contrast to a transparent medium, the energy of non-uniform waves in an absorbing medium can move for some period of time in a direction opposite to that of the phase movement.

Since the electromagnetic waves in an absorbing medium are almost always non-uniform, the question is of considerable interest, even making some simplifying assumptions. The present study assumes no dispersion and represents the dialectric permeability of the medium by a complex number, the imaginary portion of which represents losses in the medium of an unspecified nature.

- 95 -

USSR

UDC 621.372.542.29

SHIL'NIKOV, Yu. R., FILIPPOV, V. V., GALAKTIONOVA, G. M.

"A Ferrite Filter"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyve Obraztsy, Tovarnyve Znaki, No 5, Feb 72, Author's Certificate No 327541, Division H, filed 28 Sep 70, published 26 Jan 72, p 155

Translation: This Author's Certificate introduces a ferrite filter for low frequencies in the microwave band. The filter contains a transmission line, an electromagnet and a single-crystal ferrite disc. As a distinguishing feature of the patent, losses are reduced and the range of frequency adjustment is increased by locating the above-mentioned ferrite disc inside a polycrystalline ferrite toroid whose height is equal to the thickness of the disc.

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UNCLASSIFIED PROCESSING DATE--13NOV70

TITLE--MODELING OF BIOTIN BIOSYNTHESIS. 2. INTRODUCTION OF DAYGEN AND
SULFUR ATOMS INTO MOLECULES OF 2, IMIDAZCLINONE DERIVATIVES -UAUTHOR-(05)-RODIONOVA, N.A., UNANYAN, M.P., KONDRATYEVA, G.V., ZAVYALOV;
S.I., FILIPPOV, V.V.
COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, SER. KHIM. 1970, (3) 560-5

DATE PUBLISHED-----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES, CHEMISTRY

TOPIC TAGS--IMIDAZOLE, KETONE, ORGANIC SULFUR, BIOSYNTHESIS, GLYCINE, SERINE, VITAMIN

CONTROL MARKING--NO RESTRICTIONS

OOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/1764

STEP NO--UR/0062/70/000/003/0660/0665

CIRC ACCESSION NO--APO123563

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

PROCESSING DATE-15NOV70 UNCLASSIFIED :2/2 017 CIRC ACCESSION NO--AP0123563 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. HEATING 3.5 G 4 METHYL 2 IMIDAZOLINONE WITH 1.1 G PARAFURMALDEHYDE AND 1-2 DROPS ET SUBL N 18 MEDH 3 HR GAVE 4(5), METHYL, 5(4), HYDROXYMETHYL, 2, IMIDALGLINGHE, DECUMPO. LARGER THAN 300DEGREES. 'SIMILAR REACTION WITH PARAFORMALDEMYDE IN THE PRESENCE OF PIPERIDINE IN MEDH 4 HR GAVE SOPERCENT 415), METHYL, 5(4), PIPERIDINOMETHYL, 2, IMIDAZOLINONE, DECOMPO, SMALLEN THAN 290DEGREES, ALSO PREPD. FROM 1,3,DIACETYL,4(5),METHYL,5(4),BROMOMETHYL,2, IMIDAZGLINGNE AND PIPERIDINE. HYDROXYDEHYDRODETHIOBIOTIN AND PARAFORMALDEHYDE REFLUXED IN ETOH 3 HR GAVE HYDROXYDEHYDRODETHIOBIOTIN, DECOMPO. LARGER THAN 280DEGREES. I,3,01ACETYL,4,(5), BROMOMETHYL, 2, IMIDATULINONE AND ACSK IN HE SUB2 CO OVERNIGHT GAVE SOPERCENT 1.3. DIACETYL, 4(5), (ACETYLTHICMETHYL) 2, IMIDAZOLINGNE, R. 49-510EGREES. SIMILARLY WAS PREPD. THE 4151, HE ANALOG, M. 67-80EGREES AND 1,3, DIACETYL, 4,5, BISTACETYLTHIOMETHYL), 2, FMIDAZOLINONE, M. 1,3,01ACETYL,4(5),(ACETYLTHIOMETHYL),5(4),DELTA,GARBETHOXYVALERGYLI, 106-7DEGREES, AND 2. IMIDAZCLINONE, M. 109-100EGREES, WHICH WITH NERRUMOSUCCINIMIDE IN REFLUXING CEL SUB4 GAVE IN 1 HR AN OIL, WHICH TREATED WITH ACSK, THEN WITH AQ. KANG SUB4, GAVE AFTER FINAL HEATING 3 HS KITH AQ. HCL 1,3.DIACETYL,4(5), (ACETYLTHIGMETHYL),5(4), (CARBETHOXYANYL), 2, INIDAZOLINONE, OIL. A POSSIBLE SCHEME OF BIOGENESIS OF BIOTIN FROM SERINE, GLYCINE AND DETHIOSIOTIN HAS DISCUSSED. ORG. KHIM. IN. ZELINSKOGO, MOSCOW, USSR.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

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FEDOROV, F. I., and FILIPPOV, V. V.

"Amplitude Relationships for Light Waves at the Boundary Between a Uniaxial Crystal and an Isotropic Medium"

Leningrad, Optika i Spektroskopiya, Vol. 30, No. 2, 1971, pp. 318-322

Abstract: Simplified general expressions are presented for the fields of light waves reflected and refracted at the boundary between a uniaxial transparent crystal and an isotropic medium. Cases are analyzed in which one or both reflected waves are absent.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

1/2 005 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--COMPARATIVE DATA ON INFECTION RATE OF DIFFERENT GROUPS OF SCELETAL
MUSCLES OF CATTLE WITH C. BOVIS -UAUTHOR-(02)-FILIPPOV, V.V., KOSMINKOV, N.YE.

COUNTRY OF INFO-USSR

SOURCE—MEDITSINSKAYA PARAZITOLOGIYA I PARAZITARNYYE BOLEZNI, 1970, VOL 39, NR 3, PP 306-310 DATE PUBLISHED———70

SUBJECT AREAS--AGRICULTURE

TOPIC TAGS--MUSCULOSKELETAL SYSTEM, PARASITE, COMMERCIAL ANIMAL, OVETERINARY SCIENCE

CONTROL MARKING-NO RESTRICTIONS

DGCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—2000/0218

STEP NO--UR/0358/70/039/003/0306/0310

CIRC ACCESSION NO--AP0123984

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

2/2 005 **UNCLASSIFIED** PROCESSING DATE--300CT70 CIRC ACCESSION NO---APO123984 ABSTRACT/EXTRACT-(U) GP-0-ABSTRACT. THE METHOD OF HELMINTHOLOGIC SECTIONS (AFTER SKRYABIN) WAS USED FOR EXAMINATION OF 2024 SCELETAL MUSCLES FROM 11 CALVES PREVIOUSLY INDCULATED WITH C. BOVIS. ALL MUSCLES OF THE BODY, HEAD AND EXTREMITIES WERE EXAMINED FROM EACH PRACTICALLY CALF FOR ELUCIDATION OF THE INTENSITY OF THEIR INVASION WITH CYSTICERCS. THE INTENSITY AND EXTENSITY OF INVASION WAS FOUND TO BE THE HIGHEST IN ALL THE 11 CALVES IN THE MASSETERIC MUSCLES FOLLOWED BY COXOFEMORAL AMONG THE FORMER M. MASSETER AND M. PTERYGOIDES WERE MOST INTENSIVELY INVADED, AND AMONG THE LATTER M. BICEPS FEMORIS AND HM. GLUTEUS SUPERFICIALIS, MEDIUS, PROFUNDUS. BY THE INTENSITY OF INVASION M. GUADRICEPS FEMORIS WAS SECOND AFTER MASSETER MUSCLES. OBTAINED SUGGEST THAT ADDITIONAL EXAMINATION OF THE TONGUE. M. THE EVIDENCE QIADRICEPS FEMORIS AND M. BICEPS FEMORIS AS WELL AS GLUTEUS MUSCLES SHOULD BE RECOMMENDED FOR IMPROVEMENT OF THE QUALITY OF VETERINARY SANITARY EXAMINATION OF BOVINE CARCASSES FOR MEASLES, AND NOT EXAMINATION OF CUBITAL MUSCLES AS RECOMMENDED NOW. THE ADDITIONAL EXAMINATIONS SUGGESTED WILL UNDOUBTEDLY PROVIDE BETTER PREVENTION OF HUMAN INFECTION WITH TAENIARHYNCHOSIS. FACILITY: KAFEDRA PARAZITOLOGII I BIOLOGII, MOSKOVSKOGO TEKHNOLOGICHESKOGO INSTITUTA MYASNOY I HOLOCHNOY PROMYSHLENNOSTI.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

IDC 548.0:535.01

USSR

FEDOROV, F. I. and FILIPPOV, V. V.

"Heterogeneous Waves at the Boundary of a Uniaxial Crystal and an Isotropic Medium"

Leningrad, Optika i Spektroskopiya, Vol 29, No 1, 1970, pp 56-61

Abstract: In an earlier paper by these same two authors (Zhurnal prikladnoy spektroskopii, 9, 1031, 1968) a solution was obtained, by means of covariant methods, of the problem of refraction and reflection of light incident on an isotropic medium after passing through a transparent unlaxial crystal. This article is devoted to the conditions under which the refracted or reflected waves become heterogeneous waves. The authors begin their analysis by rigorously defining, in vector form, the angle of incidence and the boundary angle at which the heterogeneous waves originate. They consider complete reflection, with heterogeneous waves in the isotropic medium, and then consider heterogeneous waves in the crystal. Finally, they consider the reverse case, in which the incident light emerges from the isotropic medium and strikes the interface between medium and crystal. They derive an equation which gives the condition for limiting angles of refraction for an unusual wave in the crystal and which leads also to the condition of full reflection and a correspondingly limited angle of incidence. 1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

UDC 621.3.049.63

PETROV, E. M., KHRYCHEV, L. I., FILIPPOV, V. Ye., LUPANOV, V. Ye., ZABOR-SKIY, V. N., ISAYEV, V. S.

"A Device for Attaching Wire Leads to the Contact Areas of Integrated Circuits"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 7, Mar 71, Author's Certificate No 295217, Division H, filed 21 Apr 69, published 4 Feb 71, p 172

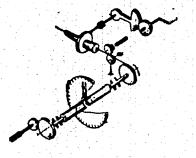
Translation: This Author's Certificate introduces a device for attaching wire leads to the contact areas of integrated circuits. The device contains a drum on which a wire is wound, drive rolls, a guide capillary and a unit for checking the strength of the joint between the leads and the contact areas. As a distinguishing feature of the patent, the precision of measuring this joint strength is improved by fastening the drum on one end of a torsion spring carrying an angle-of-turn indicator, the other end of this spring being connected to the drive mechanism.

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PETROV, E. M., et al., Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 7, Mar 71, Author's Certificate No 295217, Division H, filed 21 Apr 69, published 4 Feb 71, p 172



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USSR

UDC 546.18515/17.245

VOLCDIN, A. A., KIREYEV, V. V., KORSHAK, V. V., FILIPPOV, YE. A., CHUKOVA, V. H.

"Synthesis of Cycloinear Alkoxyphosphazenes and an Investigation of Their Reaction with Triphenylchlorosilane"

Loningrad, Zhurnal Obshchey Khimii, Vol 42(104), No 7, Jul 72, pp 1503-1505

Abstract: Alkoxy derivatives of cyclolinear type were synthesized by alcoholysis of 2,2'-bis(trichlorephosphazene) tetrachlorecyclotriphosphazenes in the presence of triethyl amino. The resultant alkoxyphosphazenes are yellowish liquids. The alkoxyphosphazenes react with triphonylchloresilene when heated above 90°C with release of alkyl chloride and formation of the corresponding silexy derivative. The reaction products from equimolecular quantities of initial reagents are brown viscous liquids which dissolve in benzene. Analysis of the conditions of the reaction and kinetic data indicate that replacement of the alkyl groups by the triphenyleilyl group takes place in the side chain.

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USSR

VOLODIN, A. A., KIREYEV, V. V., KORSHAK, V. V., and FILIPPOV YC. A.

"Synthesis and Investigation of Alkoxytriphosphazophosphonyls"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), No 3, Mar 72, pp 510-514

Abstract: The authors synthesized and studied alkoxy derivatives of the following member of the homologous series of linear alkoxyphosphazines— $HO[P(OR)_2=N]_nP(O)(OR)_2$  (n = 1 and 2). The compounds were synthesized by alcoholysis of heptachlorotriphosphazodichlorophosphonyl in the presence of triethylamine.

 $Cl(PCl_2=N)_3P(O)Cl_2+ROH\xrightarrow{N(C_3H_3)_2}HO[(RO)_2P=N]_3P(O)(OR)_2$ 

The resultant alkoxytriphosphazophosphonyls are brown viscous oils with a faint odor. Some of the physical and chemical properties of the compounds are tabulated. A study of the kinetics of the reaction between alkoxytriphosphazophosphonyls and triphenylchlorosilane shows that the reaction mechanism is close to that previously proposed for imidodiphosphoric acid and alkoxydiphosphazophosphonyls, and includes a stage of ionization of the P-O-C bond with formation of a carbonium ion which attacks the chlorosilane molecule. One table, two figures, bibliography of four titles.

PROCESSING DATE--18SEP70 UNCLASSIFIED TITLE--POSSIBLE FIELD OF APPLICATION OF NEUTRON NEUTRON METHOD IN GEOPHYSICS -U-AUTHOR-(02)-VAKHTIN, B.S., FILIPPOV, YE.M. COUNTRY OF INFO--USSR SOURCE--GEOLOGIYA I GEOFIZIKA, 1970, NR 2, PP 72-81 DATE PUBLISHED ---- 70 SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY, PHYSICS TOPIC TAGS--NEUTRON DETECTOR, GEOPHYSICS, SILVER, INDIUM CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0210/70/000/002/0072/0031 PROXY REEL/FRAME--1986/1227 CIRC ACCESSION NO--APO103115 UNCLASSIFIED 

PROCESSING DATE--18SEP70 UNCLASSIFIED 020 2/2 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE RESULTS OF INVESTIGATIONS ON CIRC ACCESSION NO--AP0103115 FURTHER DEVELOPMENT OF NEUTRON NEUTRON METHOD, BASED ON REGISTRATION OF RESONANCE NEUTRONS (NNM.R) ARE LISTED IN THE PAPER. THE SILVER AND INDIUM DETERMINATIONS IN THE SAMPLES WERE CARRIED OUT USING NNM, R METHOD. THE FOILS OF DETERMINED JELEMENTS WERE USED AS NEUTRON DETECTORS. NNM, R WAS ALSO USED FOR DETERMINATION OF ELEMENTS WHICH FORM THE STABLE ISOTOPES BY NEUTRON CAPTURE, AS GOLD AND DISPROSIUM. THE EFFECT OF OVERLAPING OF THESE ELEMENTS RESONANCE WITH SILVER RESONANCE WAS USED. INDIUM WAS DETERMINED USING RODIUM FOIL BY THE SAME WAY. THE RESULTS OF HIGH BORON CONCENTRATIONS DETERMINATION IN THE SAMPLES USING SILVER. RODIUM AND INDIUM FOILS AS NEUTRON DETECTORS ARE LISTED. THE FLATTENING OF CALIBRATING CURVES, BEING CHARACTERISTIC FOR NEUTRON NEUTRON METHOD ON HEAT NEUTRONS IS DIVERTED.

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1/2 019 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--DISORDERS IN THE SYSTEM OF SEX CHROMOSOMES IN SCHIZOPHRENIC FEMALES
-U-

AUTHOR--FILIPPOV, YU.I.

COUNTRY OF INFO--USSR

SOURCE--ZHURNAL NEVROPATOLOGII I PSIKHIATRII IMENI 5. S. KORSAKOVA, 1970, VOL 70, NR 5, PP 715-717

DATE PUBLISHED----70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--CHROMOSOME, SCHIZOPHRENIA, PSYCHIATRY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/0239

STEP NO--UR/0246/70/070/005/0715/0717

CIRC ACCESSION NO--APO117491

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

PROCESSING DATE--160CTTO UNCLASSIFIED CIRC ACCESSION NO--APO117491 ABSTRACT. THE STUDY CONCERNS SEX CHROMATINE ABSTRACT/EXTRACT--(U) GP-0-IN 2000 MENTAL FEMALE PATIENTS. A DOUBLE SEX CHROMATINE WAS DEPICTED IN 6 FEMALES WITH SCHIZOPHRENIA WHICH IS EQUIVALENT TO 0.45PERCENT OF THE TOTAL AMOUNT OF SCHIZOPHRENIC FEMALE PATIENTS (1333 CASES), 3 FEMALES HAD A GAMETIC TRISOMIA, X (47, XXX) AND IN 3 CASES THERE WAS A MOSAICITY (46.XX-47, XXX). A PRELIMINARY STUDY OF THE PSYCHOSES IN SUCH CASES, DISPLAYED THAT THE PATIENTS WITH A GAMETIC TRISONIA-X BELONGED TO A MORE MALIGNANT VARIETY OF THE CONTINUOUS FORMS OF SCHIZOPHRENIA. IN MUSATC FEMALES THE SCHIZOPHRENIC PROCESS HAD A MORE FAVORABLE DEVELOPMENT LINE FACILITY: LABORATORIYA MEDITSINSKUY SHIFT LIKE FORM). TSITOGENETIKA, INSTITUTA MORFOLOGII CHELOVEKA AMN SSSR AND LABORATORIYA OBSHCHEY PATOFIZIOLOGII INSTITUTA PSIKHIATRII AMN SSSR, MOSCOW.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

UDC 612.014.481/.482

LAVROV, B. A., FILIPPOV, Yu. M., and YANOVSKAYA, B. I.

"Comparative Study of the Biological Effect of Different Kinds of Radiation -- 600 Mev Protons, X- and Gamma Rays"

Moscow, Byulleten' Eksperimental'noy Biologii i Meditsiny, No 10, 1971, pp 47-49

Abstract: Changes in the weight of rat spleen and gonads and in the ascorbic acid content of these organs and bone marrow were traced after irradiation of the animals with equal absorbed doses of X-rays and protons (400 rads) and gamma rays and protons (600 rads). X-rays and protons caused similar changes in the above indexes, but X-irradiation produced deeper and more stable disturbances in the hematopoietic tissues. Both types of irradiation caused similar changes in the weight of the gonads and their ascorbic acid content. Gamma rays induced sharper decreases in the weight of the spleen and ascorbic acid content of the spleen and bone marrow than did protons. However, reversal of these impairments started sooner after proton irradiation, suggesting that the RBE of protons with respect to the spleen and bone marrow is less than that of gamma rays. The effects of equal doses of gamma rays and protons on the gonads were virtually identical.

1/2 UICLASSIFIED PROCESSING DATE--OPERTIO TITLE--- CACTION OF THE VINYL ETHER OF PINITROPHENOL WITH BUTAKETHIOL DIVER NUCLEAPHILIC THIYLATION CONDITIONS -U-AUTHOF-1031-BUBINSKAYA, E.I., FILTPPOVA, A.KH., SHUSTAKUVSKIY, M.F. COUNTRY OF INFO--USSR SOURCE--ZH. ORG. KHIM. 1970, 6(3) 630 DATE PUBLISHED ---- 70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS--ARYL ETHER, PHENOL, BUTANE, THIOL, ORGANIC NITRO COMPOUND. CHEMICAL SYNTHESIS, CHROMATOGRAPHY CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY BEEL/FRAME--1992/1543 STEP: 40--UR/0366/70/000/003/0630/0530 CIRC ACCESSION NO--APQII2537 UNCLASSIFIED 

2/2 018 UNCLASSIFIED PROCESSING DATE--020C170
CIRC ACCESSION NO--APO112537
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE SEALED TUBE BEACTION OF P-4
SUB2 C:CHCC SUB6 H SUB4 NO SUB2 WITH BUSNA IN ETDH AT BEDEGREES GAVE.
P-BUSC SUB6 H SUB4 NIO):NC SUB6 H SUB4 S-BU-P AND A SMALLER AMT. P-BUSC SUB6 H SUB4 N:NC SUB6 H SUB4 SBU-P. THE CUMPDS. WERE SEPD. BY
CHRUMATOG. UN AL SUB2 O SUB3.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

UNCLASSIFIED

1/2 011
TITLE--EFFECT OF ALKALI METAL CATIONS ON THE FORMATION OF CERAMIC PIGMENTS
OF THE CALCIUM OXIDE STANNIC OXIDE SILICON DIOXIDE SYSTEM -UAUTHOR-(02)-TUMANOV, S.G., FILIPPOVA, E.A.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, NEORG. MATER. 1970, 6(4), 814-17

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--CERAMIC MATERIAL, CALCIUM DXIDE, TIN OXIDE, SILICON DIOXIDE, BORIC ACID, CHROMIUM OXIDE, LITHIUM OXIDE, CERAMIC PIGMENT

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/1459

STEP NO--UR/0363/70/006/004/0814/0817

CIRC ACCESSION NO--APOL30392

UNCLASSIFIED

2/2 0.11 CIRC ACCESSION NO--AP0130392 UNCLASSIFIED ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. MORE THAN IPERCENT OF ALKALI PROCESSING DATE--04DECTO OXIDES IN THE COMPN. OF PINK PIGMENTS HAS A DETRIMENTAL EFFECT ON THE COLORATION. THE MOST DETRIMENTAL EFFECT IS OBSERVED IN CASE OF LI SUBS O. ALKALI OXIDES ENHANCE THE SINTERING OF THE BATCH DURING FIRING, WHICH INTENSIFIES WITH THE DECREASE IN THE LONIC RADIUS OF THE CAYLON AND WITH AN INCREASE IN THE ENERGY COEFF. DURING THE PREPN. OF CR-SN PINK PIGHENTS THE USE MUST BE AVOIDED OF RAW MATERIAL CONTG. ALKALI METAL CATIONS. INSTEAD OF K SUB2 CR SUB2 D SUB7 WHICH IS GENERALLY USED IN THE PRODUCTION OF PINK PIGMENTS, IT IS MORE EXPEDIENT TO USE CR SUBZ D SUB3, WHICH GIVES A MORE PURELY RED COLORATION, AND BURIC ACID SHOULD BE USED INSTEAD OF BORAX. FACILITY: DULEVSKII KRASOCHNYI UNCLASSIFIED 

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WC 575.111.575.24.576.851.48

FILIPPOVA, L. M., LIKHODED, V. G., and RAPOPORT, I. A., Institute of Chemical Physics, Academy of Sciences USSR, and Scientific Research Institute of Vaccines and Sera imeni I. N. Mechnikov, Ministry of Health USSR, Moscow

"The Effects of N-Nitroso-N-Methylurea on Escherichia Coli Strains Differing in Their Capacity for Excision Repair of DNA Lesions"

Moscow, Genetika, Vol 7, No 11, 1971, pp 130-135

Abstract: Mutagenic and lethal effects were produced in her and her E. coli K-12 strains by using different amounts of M-nitrese-M-methylurea (NMU). Almost identical results were obtained on her and her strains. Strains were unable to repair the damaged chromosomes through excisions, and synthesized neither colicin El nor gamma prophages in any significant amounts. Since NMU, like all monoalkylating agents, exerts its effects by alkylating purine bases in DNA, it is suggested that the difference in the nechanism of action of monoalkylating and bialkylating agents may be responsible for the inactivation of the bacteria.

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UDC 576.852.23.097.29.07

USSR

APANASHCHENKO, N. I., FILIPPOVA, L. M., and KHLEBNIKOVA, N. N., Institute of Epidemiology and Microbiology imeni Gamaleya and Moscow Institute of Epidemiology and Microbiology

"Study of Diphtheria Toxins and Toxoids by Disk Electrophoresis in Polyacrylamide Ge1"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 9, 1971, pp 37-42

Abstract: Study of 24 purified diphtheria toxins and toxoids prepared by the reactor and stationary methods showed that the toxoids are electrophoretically more mobile than the toxins and the toxoids obtained by the reactor method are more heterogeneous (they contain 7 or 8 fractions) than those obtained by the stationary method (4 to 6 fractions). To determine which of the fractions detected in polyacrylamide gel is the cell-termine which of the fractions detected in polyacrylamide gel is the cell-ular component of diphtheria toxoid and which is the toxic component, purified stationary toxoid was separated by gel filtration on Sephadex purified stationary toxoid was separated by gel filtration on Sephadex (flocculent) components. The cellular antigen in polyacrylamide gel divided into two fractions. The more pronounced one had less electrophoregram phoretic mobility and was located at the cathode end of the electrophoregram

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APANASHCHENKO, N. I., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 9, 1971, pp 37-42

(cellular antigen), while the other fraction was barely perceptible but possessed greater electrophoretic mobility and was located at the anode end. The toxic component separated into four fractions: two of them, the more massive, were located in the center and closer to the anode end; the other two, barely perceptible, were located as in the microbial component.

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- 10 -

#### Oncology

UDC 575.24

USSR

RAPOPORT, I. A., Doctor of Biological Sciences, and FILIPPOVA, L. M., Candidate of Biological Sciences

"Chemical Mutagens and Antimutagens and Their Significance for the Gene Pool and Carcinogenesis"

Moscow, Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im. D. I. Mendeleyeva, No 6, 1970, pp 681-689

Abstract: Research on the genetic danger posed by chemicals widely used in industry, agriculture, and daily life is summarized. The results of studies on the capacity of various drugs, polymers, dyes, and so forth to induce point mutations and chromosome aberrations are presented. The part played by chemical mutagens in worsening the gene pool of mankind and in giving rise to malignant tumors is also discussed. The problem of developing antimutagens is a formidable one, because with the current state of knowledge such agents might also have a mutagenic effect and constitute a similar danger in another form.

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UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--GENETIC ACTIVITY OF 1.4 BIS, DIAZOACETYL, BUTANE. II. EFFECT OF 1.4
BIS, DIAZOACETYL, BUTANE ON HUMAN CHROMOSOMES IN VITRO -UAUTHOR-(02)-GRINBERG, K.N., FILIPPOVA, L.M.

COUNTRY OF INFO--USSR

SOURCE--GENETIKA 1970, 6(2), 148-51

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--GENETICS, CHROMOSOME, EMBRYOLOGY, DRUG EFFECT, MITOSIS, DNA

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0650

STEP NO--UR/0473/70/006/002/0148/0151

CIRC ACCESSION NU--APO121317

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UNCLASSIFIED PROCESSING PATE--27NOV70
TITLE--GENETIC ACTIVITY OF 1,4,81S,DIAZOACETYL,BUTANE. I. ABILITY OF
1,4,81S,DIAZOACETYL,BUTANE TO INDUCE GENE MUTATIONS AND CHROMOSOME
AUTHOR-(02)-FILIPPOYA, L.M., GRINBERG, K.N.

COUNTRY OF INFO--USSR

SOURCE--GENETIKA 1970, 6(1), 92-5

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--DROSPHILA, MUTAGEN, BUTANE, ORGANIC NITROGEN COMPOUND,
CHROMOSOME, GENETICS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/1148

STEP NO--UR/0473/70/006/001/0092/0095

CIRC ACCESSION NO--AP0130176

UNCLASSIFIED

2/2 009 CIRC ACCESSION NOAPO130176 ABSTRACT/EXTRACT(U) GP-O- 1,4,BIS(DIAZOACETYL)BUTANE STRUCTURAL DAMAGE OF CHROM DETACHMENT OF ATTACHED X C HIGHLY EFFECTIVE MUTAGEN.	ABSTRACT. THE ABILE TO INDUCE GENERAL GE OSOMES WAS TESTED IN	D. MELANDGASTER: NO S WAS INDUCED BY THE	
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1/2 008 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--GENETIC ACTIVITY OF 1,4,BIS,DIAZOACETYL,BUTANE. [11. CYTOGENETIC
ACTION OF 1,4,BIS,DIAZOACETYL,BUTANE ON PLANTS -UAUTHOR-(02)-FILIPPOVA, L.M., GRINBERG, K.N.

COUNTRY OF INFO--USSR

SOURCE-GENETIKA 1970, 6(3), 38-41

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-PLANT GENETICS, MUTAGEN, AZO COMPOUND, BUTANE, CHROMOSOME

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/1980

STEP NO--UR/0473/70/006/003/0038/0041

CIRC ACCESSION NO--APO137159

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

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2/2 008 CIRC ACCESSION NOAPO13715	UNCLASSIFIED	
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MUTAGEN. FACILITY:	INSI . CHEM. FRIS.	
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WC 547.091.632.936.2

KOVALEV, B. G., ISHCHENKO, R. I., MARCHENKO, V. A., and FILIPPOVA, M. P., All Union Scientific Research Institute of Biological Methods of Plant Protection, Kishinev

"Synthetic Studies in the Area of Insect Attracting Materials (Sex Attractants).

I. Synthesis of 2-Methyl-7-octadecene Oxide (Disparlure) -- Sex Attractant of Gypsy Moth Parthetria Dispar L."

Leningrad, Zhurnal Organicheskoy Khimii, Vol 9, No 1, Jan 73, pp 6-8

Abstract: Alkylation of dodecynyllithium with isoheptyl bromide was carried out in phosphoric acid hexamethyltriamide. The reaction product -- 2-methyl-7-octadecyne (I) -- was hydrogenated in hexane over Lindlar catalyst yielding cis-2-methyl-7-oxadecene. This material was epoxidized with monoperphtallic acid in chloroform, yielding Disparlure. Reduction of (I) with sodium in liquid ammonia yielded trans-2-methyl-7-octadecene which could be used for production of trans-disparlure. Preliminary field trails showed this synthetic material to be biologically active in 0.25-0.01 mg doese per trap, retaining their sex attracting activity for prolonged periods under field conditions.

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USSR

UDC 595.421.559.42

FILIPPOVA, N. A., Zoological Institute, Academy of Sciences USSR, Leningrad

"New Data on Ticks of the Genus Ixodes Latr. (IXodoidea, Ixodidae), Specific Bar Parasites"

Leningrad, Entomologicheskoye Obozreniye, Vol 51, No 2, 1972, pp 463-475

Abstract: Two bat-specific ticks are described on the basis of collections at the Zoological Institute, and their taxonomy is altered. Ixodes pomerantzevella simplex Neumann is concluded to be identical to I. pospelovae and I. chiropterorum, described previously. Found this far in the Carpathians and in the Caucasus and adapted to foothill and montane regions, this species parasitizes Miniopterus schreibersi Kuhl. Hyotis oxygnathus Honticellu, and Nyctalus leisleri Kuhl. Ixcdes eschatocephalus vespertilionis Koch has been found in the Carpathians, the Crimea, Transcaucasus, and Central Asia. It also is adapted to foothills and mountains, but it parasitizes a greater number of bats including Myotis oxygnathus, M. myotis Borkhhausen, Rhinolophus ferrumequinum Schreber, Rh. mehelyi Matschie, and Rh. sp. I. simplex appears to prefer M. schreibersi, and I. vespertilionis seems to prefer genus Rhinolophus. Such preferences agree with descriptions of the ticks in other countries. It was possible to distinguish these species with respect to females, nymphs, and larvae. 1/1

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USSR

UDC 911.3:616.988.25(47+57)

FILIPPOVA, N. A., USHAKOVA, G. V., and BELYAEV, V. G.

"Results in the Revision of Group I. persulcaltus Species in Native Foci of Tickborne Encephalitis"

V sb. Vtoroye Acarologicheskoye soveshchaniye. Ch. 2. Tezisy dokl. (Second Acarological Conference. Part 2. Theses of Reports -- collection of works) Kiev, "Nauk. dumka," 1970, pp 188-190 (from RZh-Meditsinskaya Geografiya, No 4, Apr 71, Abstract No 4.36.58)

[No abstract]

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

### FILIPPOVA, N. A.

"Problems of Parasitology at the Second All Union Acarological Conference"

Leningrad, Parazitologiya, No 5, 1971, pp 474-476

Abstract: The Second All Union Acarological Conference held in Kiev in April 1971 heard over 75 papers on parasitology, more than half devoted to ixodid ticks. The papers dealt mainly with the zoological aspects of parasitic ticks, relations between ticks and disease pathogens, and control of parasitic ticks and the diseases they transmit. Among the subjects discussed were the use of large-scale mapping as a means of studying the spatial structure of I. persulcatus in natural foci of tickborne encephalitis (T. A. Vershinina, B. V. Vershinskiy, et al.); the effect of changes in the host's hormonal balance on ticks (V. A. Aristova and L. I. Abramova); ecology, distribution, and biocenotic relations of blood-sucking ticks in natural foci of infections (V. V. Cherny and B. B. Rositskiy); distribution of each of six species of the I. persulcatus group and biocenotic relationships of these species in foci of tickborne encephalitis in the Altay, Tyan-Shan, and Far East (N. A. Filippova, G. V. Ushakova, and V. G. Belyayev); reasons for the persistence of Dermacentor marginatus, Rhipicephalus rossicus, and Hyalomma plumbeum 1/2

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USSR

FILIPPOVA, N. A., Parazitologiya, No 5, 1971, pp 474-476

populations in a tularemia focus on Biryuchiy Island (Ye. M. Yemchuk); length of the developmental cycle and its individual phases in various ixodid ticks (L. V. Babenko, I. G. Uspenskaya, and Yu. N. Konovalov); role of ixodid ticks as vectors of arboviruses (L. K. L'vov and G. V. Gostinshchikova); and the behavior of Rickettsia prowazeki in argasid mites (V. F. Ignatovich and I. M. Grokhovskaya).

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

UDC 595.421

FILIPPOVA, N. A., Zoological Institute, Academy of Sciences USSR

"Species of the Ixodes persulcatus Group (Parasitiformes, Ixodidae). VI. Characteristics of the Ranges of I. pavlovskyi Pom. and I. persulcatus Schulze in Relation to Their Paleogenesis"

Leningrad, Parazitologiya, No 5, 1971, pp 385-391

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Abstract: The range of Ixodes pavlovskyi is divided into two extensive areas. The western part of the zone embraces the southwestern, western, northwestern, northern, and northeastern Altai and adjacent uplands and mountainous regions of Western Siberia. The eastern part coincides largely with the ranges and uplands of the Amur and Ussuri basins and their numerous tributaries. The range of Ixodes persulcatus stretches from the Baltic Sea and Belorussia, Karelia, Kalinin and Kaluga oblasts to southwestern Siberia and then continues eastward mostly over the mountain taiga from the Altai to the Pacific Ocean, including the lower reaches of the Amur and Ussuri. I. pavlovskiy appears to displaced by more heat-loving and humid broad-leaved Plicene forests. In much of the Western part of its range, in foci of tickbarne encephalitis, I.

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FILIPPOVA, N. A., Parazitologiya, No 5, 1971, pp 385-391

pavlovskyi is as abundant as I. persulcatus. Formation of the range of I. persulcatus was directly related to the development of the taiga landscape.

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- 38 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

576.895.421

USSR UDC:

FILIPPOVA, H.A., and BELYAYEV, V. G., Zoological Institute, Academy of Sciences USSR, Leningrad, and Primorskaya Antiplague Station

"Species of Ixodes persulcatus (Parasitiformes Ixodidae) Group. Ixodes pavlovskyi Pom. and Ixodes nipponensis Kitacka et Saito in Primor'ye"

Leningrad, Parazitologiya, Vol 4, No 6, Nov/Dec 70, pp 515-523

Abstract: A study was made of the habitats of populations of Txxdes pavlovskyi Pom., Ixxdes nipponensis Kitaoka et Saito, and Ixxdes persuicatus Schulze ticks, their distribution, and certain ecological and morphological characteristics, particularly in the preimago phase. The Ixxdes pavlovskyi ticks are widely distributed throughout a wide area. Its western part includes the Altay and aljacent nothern and southern elevations and mountains, and its eastern part, the elevations and mountain crests of the Far East bordering the vallers of the Amur and Ussuri Rivers and their tributaries. The ticks are confined for the most part to coniferous-breadleaved and secondary leafy forests, and feed on rodents and some species of birds. As compared with Ixxdes persulcatus, their number is relatively small.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

FILIPPOVA, N. A., and BELYAYEV, V. G., Parazitologiya, Vol 4, No 6, Nov/Dec 70, pp 515-523

Ixodes nipponensis ticks are found in the southern and southwestern parts of Primorskiy Kray and along the coastal zone of Petr Velikiy Bay and its vicinity, mostly in grassy meadows, and marshes. They are also widely distributed in Japan. In its preimago phase, the tick is found on the field mouse Apodemus agrarius and the Far Eastern vole Microtis fortis. There are indications that it also parasitizes cattle, goats, horses, and dogs; it is also found on man. Ixodes persulcatus ticks are likewise found in these areas. Their number, however, is small as compared with that of Ixodes nipponensis. The male and female characteristics of Ixodes nipponensis ticks and their morphology, particularly in the preimago phase, are discussed in detail.

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USSR

UDC 631.8 + 632.954:633

CHESALIN, G. A., FILIPPOVA, N. V., and TIMOFEYEVA, A. A., VIUA [An unknown abbreviation]

"The Role of Mineral Nutrition in Detoxification of Herbicides in Plants"

Moscow, Khimiya v Sel'skom Khozyaystve, Vol 11, No 10 (120), 1973, pp 47-50

Abstract: It has been shown that the absorption, accumulation, and detoxification of herbicides depended to a large extent on the conditions of mineral nutrition of the plants. The nutrition level affects the residual quantity of herbicides in the plant organs. In this fashion, regulating the nutrition of cultured plants, it is possible to lower the content of residual levels of herbicides in the crop and even to inactivate them completely in some plants during their period of vegetation.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR UDC: 8.74

FILIPPOVA, N. V.

"System of Residual Classes With Two Bases"

Sb. nauch. tr. po probl. mikroelektron. Mosk. in-t elektron. tekhn. (Collected Scientific Works on Problems of Microelectronics. Moscow Institute of Electronic Technology), 1972, vyp. 9. (Physics and Mathematics Series), pp 213-216 (from RZh-Kibernetika, No 10, Oct 72, abstract No 10V615 by A. Maslov)

Translation: The author considers a system of residual classes consisting of two odd mutually simple bases. An overflow criterion is given for addition in the proposed system. The simplicity of performing division is noted.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

UDC 3.74

YEVSTIGNEYEV, V. G., GORSKAYA, V. V., FILIPPOVA, N. V.

"Some Scaling Problems when Solving Problems in the System of Remainder Classes in the Nonredundant Arithmetic Range"

Sb. nauch. tr. po probl. mikroelektron. Mosk. in-t elektron, tekhn. (Collected Scientific Works on the Problems of Microelectronics of the Moscow Institute of Electronic Engineering), 1972, vyp. 9, Physics and Mathematics Series, pp 200-212 (from RZh-Kibernetika, No 9, Sep 72, Abstract No 9V578)

No abstract

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UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--DIFFERENTIAL MICROCALORIMETER FOR CONDUCTING QUANTITATIVE
THERMOGRAPHY -UAUTHOR-(03)-REZNITSKIY, L.A., KHOLLER, V.A., FILIPPOYA, S.YE.

COUNTRY OF INFO--USSR

SOURCE--ZH. FIZ. KHIM. 1970, 44(2), 534-5

DATE PUBLISHED----70

SUBJECT AREAS--METHODS AND EQUIPMENT

TOPIC TAGS--CALORIMETER, THERMOGRAPHIC ANALYSIS, THERMAL EFFECT

CONTROL MARKING--NO RESTRICTIONS

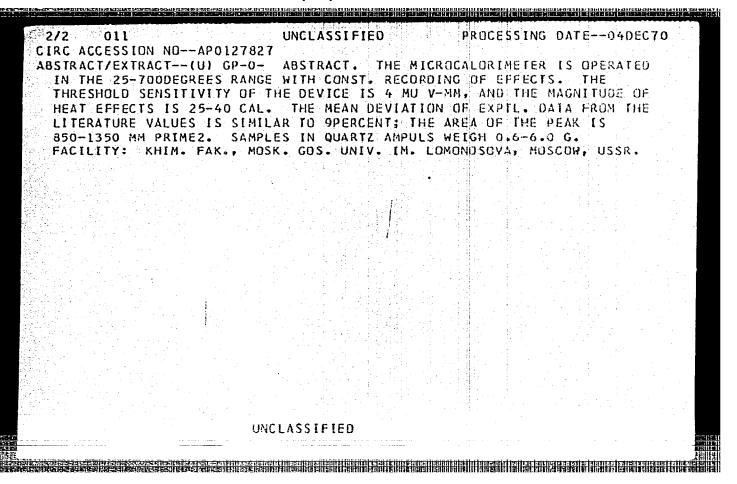
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/0216

STEP NO--UR/0076/70/044/002/0534/0535

CIRC ACCESSION NO--APO127827

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"



UDC: 533.9...16

FILIPPOVA, T. I., FILIPPOV, N. V.

"Plasma Focus as a Pulsed Source of Neutrons of Synthesis Reactions"

Kiev, Neytron. fizika--sbornik (Neutron Physics--collection of works), Ch. 2, "Nauk. dumka", 1972, pp 194-200 (from RZh-Fizika, No 6, Jun 73, abstract No 6G340)

Translation: The paper presents the physical principles of operation of an installation of the "plasma focus" type. Data are given on the number of neutrons per pulse, the pulse duration, and the pulse repetition rate. A curve is plotted for the neutron yield as a function of the energy reserve of the installation. The resultant curve is extrapolated to  $10^8$  j.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

Acc. Nr. 470045326 Abstracting Service: Ref. Code CHEMICAL ABST. UR0020 90910k Isomerization of active centers in the anionic poly-90910k Isomerization of active centers in the anionic polymerization of vinyltrimethylgermane. Nametkin, N. S.: Durgar van, S. G.: Tikhonova, L. I.: Filippova, V. G.: tinst, Neftekhim, Sin, im. Topchieva, Moscow, USSR). Doki, Akad, Nauk SSSR 1970, 190(1), 114-17 (Chem) (Russ). Me::GeCH: CH2 (I) polymd, slowly in heptane in the presence of Bulli at 35-45°. Thus, after 1150 hr at 3.41 mole/l. I concn. and 0.01 mole/l. Bulli concn., only 57% conversion was obsd. After an initial induction period, the polymn, rate was proportional to I conen, and duction period, the polymn, rate was proportional to I conen, and the square root of the initiator conen. Addn. of butadiene to the reaction system after 300 hr did not cause it to polymerize, indicating the low activity of the I carbanions. The polymer chain growth is apparently complicated by deactivation of the active centers by a hydride transfer from the end of the growing chain to give LiH. This was confirmed by observation of C:C absorptions in the ir spectra of the polymer and by Hr uptake corresponding to 2.2% double bonds. DBJR REEL/FRAME 19780250

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

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1/2 019 UNCLASSIFIED PROCESSING DATE-300CT7C
TITLE-COPOLYMERIZATION OF ALLYTRIMETHYL OR ALLYLDIMETHYLPHENYLSILANES
WITH ACRYLGNITRILES -U-

AUTHOR-(04)-NAMETKIN, N.S., KOZHUKHOVA, I.N., FILIPPOVA, V.G., DURGARYAN,

COUNTRY OF INFO-USSR

SOURCE-VYSOKOMCL. SOEDIN., SER. 8 1970, 12(3), 180-2

DATE PUBLISHED 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-COPOLYMERIZATION, ORGANIC SILANE, ACRYLONITRILE, CHEMICAL KINETICS. BENZENE DERIVATIVE

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—2000/0671

STEP NO--UR/0460/70/012/003/0180/0182

CIRC ACCESSION NO--APO124343

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

PROCESSING DATE--300CT7 UNCLASSIFIED 019 2/2 CIRC ACCESSION NO--AP0124343 ABSTRACT. THE COPOLYMN. KINETICS OF H SUB2 ABSTRACT/EXTRACT-(U) GP-0-C:CHCH (I) WITH ME SUB3 SICH SUB2 CH: CH SUB2 (II) OR ME SUB2 PH SICH SUB2 CH:CH SUB2 (III) WAS STUDIED IN BULK OR KCONME SUB2 SOLN. IN THE PRESENCE OF BZ SUB2 O SUB2. THE DEPENDENCE OF THE COPOLYMER COMPN. ON THE COMPN. OF THE STARTING MONOMER MIXTS. WAS ESTABLISHED. REACTIVITY RATIOS (R) IN THE THE I-II COPOLYMN. WERE 3.98 FOR I AND 0.1 FOR II AND IN THE I-III COPOLYMN. 2.24 FOR I AND 0.20 FOR III. THE REACTIVITY FACTORS (Q) AND POLARITY FACTORS (E) WERE 0.036 AND 02.7 FOR FACILITY: INST. II, AND 0.070 AND 0.30 FOR III, RESP. NEFTEKHIM. SIN. IM. TOPCHIEVA, MOSCOW, USSR. UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

UDC 669.71.017:539.3/5.01

KUTAYTSEVA, Ye. I., FILIPPOVA, Z. G., and BOROVOV, S. A.

"The Effect of Thermomechanical Processing on Properties of the V96ts Alloy"

Metallovedeniye Splavov Legkikh Metallov-Sbornik, Moscow, "Nauka", 1970, pp 29-33, resume

Translation: The effect of thermomechanical processing on the properties of the V96ts high-strength alloy was investigated. A positive effect of the plastic deformation on the mechanical properties of the alloy was established. Three figures, two tables.

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USSR

UDC 621.789-977:669.15-194.3

GAVRANEK, V. V. and FILISPOVA. Z. K., Khar'kov Polytechnic Institute

"Stability of the Effect of HTSH on the Properties of 1Kh12VNMF Steel"

Moscow, Metallovedeniye i termicheskaya obrabotka metallov, No 2, 1972, pp 34-36

Abstract: A study has been made of the stability of the effect of high-temperature strain hardening (HTSH) -- under optimum specifications -- on the properties of 1kh12VMF steel after tempering to 200-700°C and repeated hardening. The chemical composition of the test steel was: 0.16% C; 11.68% Cr; 0.60% Ni; 0.70% Mo; 0.30% V; 1.0% W; 0.62% Mn; 0.32% Si; 0.20% S and 0.025% P. The increased mechanical properties of 1k12VNMF steel as a result of HTSH are retained up to high tempering temperatures as well as after repeated heat treating. Application of HTSH and tempering at 200°C to the steel increases its erosion resistance more than five-fold as compared to that following conventional treatment -- temper hardening at 680°C. HTSH with repeated hardening is recommended for machinable parts from 1kh12VNMV steel. (2 illustrations, 2 tables, 3 bibliographic references).

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USSR

UDC: 669.781.053,4.068

ZHAYMINA, R. Ye., FILIPPOVA, Z. O., MUN, A. I.

"Absorption of Boron by AV-17 and EDE-10 Anionites from Aqueous Salt Solutions"

Tr. In-ta Khim. Nauk. An KazSSR [Works of Institute of Chemical Sciences, Academy of Sciences, KazSSR], 1972, No 36, pp 76-81 (Translated from Referativnyy Zhurnal Metallurgiya, No 8, 1973, Abstract No 8G195, by the authors).

Translation: The influence of various salts on the adsorption of borate ions by the anionites AV-17 and EDE-10 is studied. The increase in the competing influence of ions in the sequence K<sup>+</sup> < Na<sup>+</sup> < Li<sup>+</sup>. Ba<sup>2+</sup> < Ca<sup>2+</sup> < Mg<sup>2+</sup> and F<sup>-</sup> < CH<sub>3</sub>COO<sup>-</sup> < Cl<sup>-</sup> < NO<sub>3</sub><sup>-</sup> < Br<sup>-</sup> < J<sup>-</sup>, is probably related to the varying facility for hydration. When F<sup>-</sup>, PO<sup>3-</sup><sub>4</sub>, or particularly H<sub>2</sub>PO<sup>-</sup><sub>4</sub>, HPO<sup>2-</sup><sub>4</sub> and C<sub>2</sub>O<sup>2-</sup><sub>4</sub> are added to the solution, the nature of absorption of B changes, resulting from the chemical interaction between the boric acid and these anions. An increase in the concentration of the chlorides of Na, K and Li has practically no influence on the absorption of B from boric acid solutions. An increase in the concentration of CaCl<sub>2</sub> and MgCl<sub>2</sub>, however, facilitates transition of B to

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Zhaymina, R. Ye., Filippova, Z. O., Mun, A. I., Tr. In-ta Khim. Nauk. An KazSSR, 1972, No 36, pp 76-81.

the solid phase, which is explained by the influence of the  ${\rm Ca}^{2+}$  and  ${\rm Mg}^{2+}$  ions biblio. refs.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

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UDC 576.858.25.095.38:576.895.421

KONDRASHOVA, Z. N., and FILIPPOYETS, R. V., Sverdlovsk Scientific Research Institute of Virus Infections

"Infection Rate of Ixodes persulcatus Ticks and Some Aspects of Transovarial Transmission After Their Controlled Infection With Tickhorne Encephalitis Virus"

Moscow, Voprosy Virusologii, No 6, Nov/Dec 70, pp 703-708

Abstract: Results are presented of a study of the infection rate, incidence of transovarial transmission, and changes in the virus in the imago-egg-lava stages of the ticks. The ticks were infected by controlled feeding of certain suitable insects. After strong infection of adult female ticks with Sof'in KE virus strain, the virus was found in 100 percent of the eggs of these ticks. A clear relationship was noted between the infection rate of the eggs laid and the virus dose used for the infection. When this dose was reduced to 1.3-2.3 lg LD<sub>50</sub>/0.03 ml, no virus could be found in the eggs. Infection of batches of eggs was studied in all stages of egg development. It was found that the extent of infection of tick larvae was equivalent to that of eggs in the last days of their development. The results obtained confirm the previous observation that application of a massive dose of the virus to the tick organism 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

KONDRASHOVA, Z. N., and FILIPPOVETS, R. V., Voprosy Virusologii, No 6, Nov/Dec 70, pp 703-708

at the beginning of its development guarantees maximum infection of the tick, at which level the "ovarial barrier" is absolutely overcome by the virus.

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#### Electrochemistry

USSR

UDC 541.135.4

FILIPPOVICH, B. S., KAL'VARSKIYA, T. M., State Institute of Applied Chemistry, Leningrad

"Mechanism of Removal of the Reaction Water in a Fuel Element with a Quasisolid Electrolyte and Waterproofed Electrodes"

Moscow, Elektrokhimiya, Vol VII, No 10, pp 1505-1508

Abstract: Water transfer in a waterproof electrode includes passage of the liquid phase and diffusion of vapor through the threshold space not filled with liquid. A study was made of the relative contribution of the different mechanisms of water transfer to the total flow which is essential to the description of the structure of the electrode insuring stationary conditions for any current strength. The following mechanisms are discussed: 1) evaporation under the effect of the temperature gradient, molecular diffusion connected with convexity of the meniscus at the interface between the waterproof electrode and the electrolyte; 3) the mechanism of forcing the liquid phase through the electrode. Only the transfer phenomena determined by the properties of the electrode itself were investigated. Graphs are presented

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

USSR

FILIPPOVICH, B. S., et al, Elektrokhimiya, Vol VII, No 10, pp 1505-1508

showing the distribution of thermal evaporation to the total water flow as a function of the current density at various temperatures.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

1/2 009 UNCLASSIFIED PROCESSING DATE--04DEC70

TITLE--STRUCTURAL ORGANIZATION OF THE PROTEIN SYNTHESIZING SYSTEM OF CHLOROPLASTS -U-

AUTHOR-(04)-FILIPPOVICH, I.I., TONGUR, A.M., ALINA, B.A., OPARIN, A.I.

COUNTRY OF INFO--USSR

SOURCE--BIOKHIMIYA 1970, 35(2), 247-56

DATE PUBLISHED ---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--CHLOROPLAST, PROTEIN SYNTHESIS, DNA

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3009/0196

STEP NO--UR/0218/70/035/002/0247/0256

CIRC ACCESSION NO--APO139059

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

2/2 UNCLASSIFIED PROCESSING DATE -- 04DECTO CIRC ACCESSION NO--AP0139059 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. THE PROTEIN SYNTHESIZING CAPACITY AND THE ELECTRON MICROSCOPIC APPEARANCE OF DIFFERENT RIBOSUME FRACTIONS WERE STUDIED. RIBOSOMES FROM CHLOROPLASTS OF PEA SEEDLINGS WERE DISASSOCD. STEPWISE FROM LAMELLAR STRUCTURES, PROTEINS, AND LIPOPROTEINS BY CONTROLLED TREATMENT WITH NA DEOXYCHOLATE AND FROM CONNECTED NUCLEI ACIDS BY TREATMENT WITH DNASE, TRITON X-100, AND NA DODECYL SULFATE. THE DIFFERENT RIBOSOME PREPNS. THUS OBTAINED WERE SEPO. INTO COMPONENTS BY CENTRIFUGATION IN A SUCROSE GRADIENT. AS EVIDENCED BY ELECTRON MICROSCOPY, THE EFFECT OF DETERGENTS WAS TO SOLUBILIZE FIRST THE THYLAKOID BINDING LIPOPROTEINS, AND THEN THE LIPOPROTEINS LOCATED INSIDE THE INDIVIDUAL THYLAKOIDS. FURTHER REMOVAL OF LIPOPROTEINS AND PROTEINS FROM THESE STRUCTURES LED TO THE LIBERATION OF CYCLIC POLYRIBOSOMES. WHICH WERE STILL CONNECTED TO DNA MOLS. IT IS SUGGESTED THAT EACH SEGMENT OF DNA IS COUPLED WITH CYCLIC POLYRIBOSOMES AND EMBEDDED IN A THYLAKOID. FACILITY: A. N. BAKH INST. BIOCHEM., MOSCOW, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

Radiobiology

USSR

UDC 615.849.1.015.25.032.381.033

KOSHCHEYENKO, N. N., FILIPPOVICH, I. W., and ROMANTSOV, YE. F., Institute of Biophysics, Ministry of Health USSR, Moscow

"Chemical State and Content of the Radioprotector in Some Rat Tissues in Early Periods After Intraperitioneal Administration of Cystamine"

Moscow, Voprosy Meditsinskoy Khimii, Vol 16, No 1, Jan/Feb 70, pp 69-72

Abstract: Spectrophotometric determinations of tissue homogenates indicated that cystamine, after intraperitoneal administration to rats in a dose of 75 mg/kg, accumulated in the thymus, splcen, and liver in the form of beta-mercaptoethylamine, while unchanged cystamine and mixed disulfides of the radioprotector with proteins were absent. The maximum content of beta-mercaptoethylamine in tissues was observed 15-30 min after administration of cystamine, i.e., during the period of the maximum radioprotective effect. E. H. Betz et al (Int. J. Radiat. Biol. 4, 231, 1962) used a polarographic method of determination, and found a maximum content of radioprotector in tissues 2 min. after administration of cystamine, but their results were presumably due to the fact that the organs removed from the abdominal cavity were not washed before homogenization.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

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Acc. Nr: AP0037241

Ref. Code: UR 0301

PRIMARY SOURCE: Voprosy Meditsinskoy Khimii, 1970, Vol 16

Nr 1, pp 69-72

ON THE CHEMICAL STATE AND CONTENT OF RADIOPROTECTOR IN SOME TISSUES OF RAT AT EARLY TIME-INTERVALS AFTER CYSTAMINE ADMINISTRATION

Koshcheyenko, N. N.; Filippovich, I. V.; Romantsev, Ye. F.

Institute of Biophysics USSR Ministry of Health, Moscow

The relative content of MEA, cystamine and mixed disulphides of protector with cellular proteins in rat thymus, spleen and liver during 3 hr after i, p. cystamine administration at a radioprotective dose has been studied. It was established that at all time-intervals studied only mercapto form of the protector has been found in tissues. Cystamine and mixed disulphides content was less than 0.01 punole per 25–100 mg of tissue. The coincidence of maximal radioprotective effect and MEA accumulation in the tissues studied after cystamine administration was noted. One and the same biochemical mechanism (or mechanisms) of radioprotective action for MEA and cystamine may be postulated on the base of similarity between time-course of MEA accumulation in various tissues after MEA and cystamine administration. The difference between these results and those from paper of Betz (Betz E. H., Mewissen D. J., Lelievre P., Intern. J. Rad. Biol., 1962, 4, 231) probably may be explained by the fact that in the paper of Betz the tissues were not washed before homogenization.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

1/2 017 UNCLASSIFIED PROCESSING DATE-300CT70
TITLE-ON THE EFFECTIVENESS OF TRIMECAINUM BLOCKADES IN THE DIAGNOSIS OF
SACRGLUMBAR RADICULITIS -U-

AUTHOR-FILIPPOVICH. N.F.

COUNTRY OF INFO--USSR

SOURCE--ZCKAYCOKHRANENIYE BELORUSSII, 1970, NR 4, PP 74-79

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-NERVOUS SYSTEM DISEASE, ETIOLOGY, NERVOUS SYSTEM DRUG, DIAGNOSTIC MEDICINE

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—3001/0924

STEP NO--UR/0477/70/000/004/0074/0079

CIRC ACCESSION NG--AP0126583

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"

PROCESSING DATE--- 300CT70 UNCLASSIFIED 017 2/2 CIRC ACCESSION NO-APO126583 ABSTRACT. WE HAVE STUDIED THE EFFECTIVENESS ABSTRACT/EXTRACT--(U) GP-0-OF TRIMECAINUM EPIDURAL BLOCKADES USE ON 204 PATIENTS WITH DISCOGENOUS LUMBESACRAL RADICULITIS. 102 PATIENTS HAVE BEEN TREATED BY TRIMECAINUM EPIDURAL BLOCKADES AND 102 CHES, BY OTHER MEDICAMENTOUS AND PHYSIOTHERAPEUTIC METHODS. IN BOTH GROUPS PATIENTS HAVE BEEN CHOSEN APPROXIMATELY OF THE SAME AGE, SEX. WITH THE SAME ETIOLOGY, CLINICAL PICTURE OF THE DISEASE AND DURATION OF THE PROCESS DEVELOPMENT. A USE OF THE EPIDURAL BLOCKADES BY TRIMECAINUM HAS LED TO A NICE CURATIVE RESULT IN 91-3PERCENT OF THE PATIENTS AND DECREASED THE NUMBER OF BED FACILITY: POROZOVSKAYA GORPOSELKUVAYA DAYS FROM 26.4 TO 9.9. BOL NITSA AND BELCRUSSKIY N-I INST. NEVROLOGII, NEVROKHIKURGII I FIZIOTERAPII.

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USSR

MASLOVA, L. M. and FILIPPOVICH, S. M., Chair of Infectious Diseases, Alma-Ata Medical Institute and Laboratory for the Study of Foot and Mouth Disease, Kazakh Veterinary Institute

"Vaccinal Foot-and-Mouth Disease in Man"

Alma-Ata, Zdravookhraneniye Kazakhstana, No 1, 1972, pp 69-70

Abstract: Three days after a healthy 32-year-old veterinarian had vaccinated cows with formaldehyde-killed vaccine from lapinized foot-and-mouth disease virus type 0<sub>1</sub> (avirulent for animals), he developed blisters with serous contents (aphthae) in the right axillary region. A week later papular rashes appeared on both hands, face, and neck. The results of the complement-fixation test with material obtained from dead mice infected with lymph from the patient's aphthae confirmed that the virus was identical in antigenic properties to the 0<sub>1</sub> virus from which the vaccine had been prepared. After 25 days of symptomatic treatment, the patient was discharged in satisfactory condition, but for a month afterwards he felt weak and dizzy, with occasional spells of dyspnea and tachycardia. Small papules erupted on his hands and neck for 7 months after excessive fatigue, chilling, or drinking alcohol. Specific complement-fixing antibodies appeared in his blood for 13 months.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002200810017-0"